# H97M-PLUS

Intel® Socket 1150 for the 5th/New 4th/4th Generation Core™ i7/Core™ i5/Core™
i3/Pentium®/Celeron® Processors
Supports Intel® 22 nm CPU
Supports Intel® Turbo Boost Technology 2.0
* The Intel® Turbo Boost Technology 2.0 support depends on the CPU types.
* Refer to www.asus.com for CPU support list

- ## Chipset

  Intel® H97

- ## Memory

  4 x DIMM, Max. 32GB, DDR3 1600/1333 MHz Non-ECC, Un-buffered Memory *
  Dual Channel Memory Architecture
  Supports Intel® Extreme Memory Profile (XMP)
  * Refer to www.asus.com for the Memory QVL (Qualified Vendors Lists).
  * Due to Intel® chipset limitation, DDR3 1600 MHz and higher memory modules on XMP mode
  will run at the maximum transfer rate of DDR3 1600 Mhz.

- ## Graphic

  Integrated Graphics Processor- Intel® HD Graphics support
  Multi-VGA output support : HDMI/DVI-D/RGB ports
  - Supports HDMI with max. resolution 4096 x 2160 @ 24 Hz / 2560 x 1600 @ 60 Hz
  - Supports DVI-D with max. resolution 1920 x 1200 @ 60 Hz
  - Supports RGB with max. resolution 1920 x 1200 @ 60 Hz
  Maximum shared memory of 512 MB
  Supports Intel® InTru™ 3D, Quick Sync Video, Clear Video HD Technology, Insider™
  Supports up to 3 displays simultaneously

- ## Multi-GPU Support

  Supports AMD Quad-GPU CrossFireX™ Technology

- ## Expansion Slots

1 x PCIe 3.0/2.0 x16 (x16 mode, gray)
1 x PCIe 2.0 x16 (x4 mode, black)
2 x PCI

- ## Storage

  **Intel® H97 chipset :**
  1 x M.2 Socket 3, with M Key, type 2260/2280 storage devices support (both SATA & PCIE mode)[1]
  6 x SATA 6Gb/s port(s), gray
  Support Raid 0, 1, 5, 10
  Supports Intel® Smart Response Technology, Intel® Rapid Start Technology, Intel® Smart Connect Technology [2]

- ## LAN

  Intel® I218V, 1 x Gigabit LAN Controller(s)
  Intel® LAN- Dual interconnect between the Integrated LAN controller and Physical Layer (PHY)

- ## Audio

  Realtek® ALC887 8-Channel High Definition Audio CODEC featuring Crystal Sound 2
  - Supports : Jack-detection, Multi-streaming, Front Panel Jack-retasking
  **Audio Feature :**
  - Audio Shielding: Ensures precision analog/digital separation and greatly reduced multi-lateral interference
  - Dedicated audio PCB layers: Separate layers for left and right channels to guard the quality of the sensitive audio signals
  - Audio amplifier: Provides the highest-quality sound for headphone and speakers
  - Premium Japanese-made audio capacitors: Provide warm, natural and immersive sound with exceptional clarity and fidelity
  - Unique de-pop circuit: Reduces start-up popping noise to audio outputs

- ## USB Ports

  **Intel® H97 chipset :**
  6 x USB 3.0/2.0 port(s) (4 at back panel, blue, 2 at mid-board)
  **Intel® H97 chipset :**
  8 x USB 2.0/1.1 port(s) (2 at back panel, black, 6 at mid-board)

- ## Special Features

**ASUS 5X Protection :**
- ASUS DIGI+ VRM - 4 Phase digital power design
- ASUS Enhanced DRAM Overcurrent Protection - Short circuit damage prevention
- ASUS ESD Guards - Enhanced ESD protection
- ASUS High-Quality 5K-Hour Solid Capacitors - 2.5x long lifespan with excellent durability
- ASUS Stainless Steel Back I/O - 3x more durable corrosion-resistant coating

**ASUS EPU :**
- EPU

**ASUS Exclusive Features** :
- GPU Boost
- MemOK!
- AI Suite 3
- Ai Charger
- Anti-Surge
- USB 3.0 Boost
- Disk Unlocker
- Crystal Sound 2

**Interactive HomeCloud**
- Media Streamer

**ASUS Quiet Thermal Solution** :
- Stylish Fanless Design Heat-sink solution & MOS Heatsink
- ASUS Fan Xpert 2+

**ASUS EZ DIY :**
- ASUS CrashFree BIOS 3
- ASUS EZ Flash 2
- ASUS UEFI BIOS EZ Mode
- Push Notice

**ASUS Q-Design :**
- ASUS Q-Slot
- ASUS Q-DIMM

- ## Operating System Support

  Windows® 8.1
  Windows® 8
  Windows® 7

- ## Back I/O Ports

  1 x PS/2 keyboard/mouse combo port(s)
  1 x DVI-D
  1 x D-Sub

1 x HDMI
1 x LAN (RJ45) port(s)
4 x USB 3.0 (blue)
2 x USB 2.0
6 x Audio jack(s)

- ## Internal I/O Ports

  1 x USB 3.0 connector(s) support(s) additional 2 USB 3.0 port(s) (19-pin)
  3 x USB 2.0 connector(s) support(s) additional 6 USB 2.0 port(s)
  1 x M.2 Socket 3 for M Key, type 2260/2280 devices
  1 x TPM header
  1 x LPT header
  1 x COM port(s) connector(s)
  6 x SATA 6Gb/s connector(s)
  1 x CPU Fan connector(s) (1 x 4 -pin)
  2 x Chassis Fan connector(s) (2 x 4 -pin)
  1 x S/PDIF out header(s)
  1 x 24-pin EATX Power connector(s)
  1 x 8-pin ATX 12V Power connector(s)
  1 x Front panel audio connector(s) (AAFP)
  1 x System panel(s)
  1 x MemOK! button(s)
  1 x GPU Boost switch(es)
  1 x Clear CMOS jumper(s)

- ## Accessories

  User's manual
  I/O Shield
  2 x SATA 6Gb/s cable(s)

- ## BIOS

  64 Mb Flash ROM, UEFI AMI BIOS, PnP, DMI 2.7, WfM 2.0, SM BIOS 2.8, ACPI 5.0, Multi-language BIOS, ASUS EZ Flash 2,
  CrashFree BIOS 3, F11 EZ Tuning Wizard, F6 Qfan Control, F3 My Favorites, Quick Note, Last Modified Log, F12 PrintScreen function, F3 Shortcut function, and ASUS DRAM SPD (Serial Presence Detect) memory information

- ## Manageability

WfM 2.0, DMI 2.7, WOL by PME, PXE

- ## Support Disc

  Drivers
  ASUS Utilities
  EZ Update
  Anti-virus software (OEM version)

- ## Form Factor

  mATX Form Factor
  9.6 inch x 8.8 inch ( 24.4 cm x 22.4 cm )

- ## Note

  *1: M.2 Socket 3 shares bandwidth with SATA6G_5 & SATA6G_6 ports.
  *2: These functions will work depending on the CPU installed.